



North Carolina Department of
Environment and Natural Resources

ECOSYSTEM ENHANCEMENT PROGRAM

QUARTERLY REPORT

April 1, 2004 – June 30, 2004



This quarterly report is intended to satisfy reporting requirements of the Memorandum of Agreement entered into by the North Carolina Department of Environment and Natural Resources (NCDENR), the North Carolina Department of Transportation (NCDOT), and the United States Army Corps of Engineers (USACE), Wilmington District, on July 22, 2003, for providing compensatory mitigation through the NCDENR Ecosystem Enhancement Program to offset impacts to waters and wetlands due to activities authorized by Clean Water Act permits.



Ecosystem Enhancement Program Quarterly Report April 1 – June 30, 2003

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i. Introduction

This report covers the period beginning April 1, 2004 through June 30, 2004. This is the fourth quarterly report of the Transition Period. The Transition Period allows for conversion from the current Wetlands Restoration Program (WRP) and NCDOT mitigation operations and methods to Ecosystem Enhancement Program (EEP) watershed based operations and methods that will provide mitigation prior to impacts. During transition, the EEP will provide compensatory mitigation at a ratio requiring at least 1:1 restoration. High quality preservation and enhancement may be accepted to supplement the 1:1 restoration requirement. Preservation is provided at the ratio of 10: 1 (for projects that do not have restoration at the time of permit; restoration for these impacts will be provided at the end of transition). Complete transition guidelines and requirements are found in Section IX of the MOA. The transition period will end on July 22, 2005.

ii. Report Structure

This report provides the following information as required in the MOA Section VII, Program Review:

1. Projected impacts by amount, type, and eight-digit Cataloging Unit (CU) based on the seven-year anticipated impacts.
2. Mitigation sites acquired by amount, type, and eight-digit CU based on the seven-year anticipated impacts.
3. Mitigation projects that are complete and function, or otherwise available for use pursuant to Paragraph VI.B, of the MOA, by amount, type, and eight-digit CU and implementation status.
4. Mitigation projects that were debited by USACE permit Action ID, amount, type, and eight-digit CU.
5. Net remaining mitigation by amount, type, and eight-digit CU for each complete and function mitigation project.

The report is organized into three main sections.

Section 1 Projected Impacts. Table 1 addresses item number 1 above.

Section 2 Mitigation Project Status.

This section addresses items numbered 2 and 3 above and is organized in the following manner:

- Tables 2a-d: Restoration Site Status as of June 30, 2004
- Table 3: Preservation Site Status as of June 30, 2004
- Tables 4a-b: Restoration Assets Available
- Table 5a: Preservation Assets Available This Quarter
- Table 5b: Cumulative Preservation Assets

Section 3 Project Accounting.

This section addresses items numbered 4 and 5 above and is organized in the following manner:

- Table 6: Mitigation Projects Debited by USACE permit Action ID
- Table 7: Net Remaining Preservation Mitigation

SECTION 1: PROJECTED IMPACTS

Projected Impacts based on seven-year anticipated impacts

The following table comprises the most recent seven-year impact projections for each river basin and CU forecasted by NC DOT and provided to EEP in February 2004. This table supersedes Table 1 provided within the first two quarterly reports and is the same as reported in the third quarterly report.

**Table 1: Projected Impacts
BROAD RIVER BASIN**

CATALOGING UNIT <u>03050105</u>	STREAM IMPACTS		WETLAND IMPACTS	
	Feet		Acres	
2004	0		0	
2005	232		3	
2006	349		0	
2007	7,931		30	
2008	4,846		4	
2009	11,542		70	
2010	0		0	

CAPE FEAR RIVER BASIN

CATALOGING UNIT <u>03030001</u>	STREAM IMPACTS		WETLAND IMPACTS	
	Feet		Acres	
2004	1,480		1	
2005	0		2	
2006	0		0	
2007	0		0	
2008	0		0	
2009	0		0	
2010	1,674		4	
<u>03030002</u>	2004	4,237	2	
	2005	3,946	1	
	2006	4,575	3	
	2007	7,556	32	
	2008	15,200	60	
	2009	15,908	38	
	2010	8,281	24	
<u>03030003</u>	2004	18	0	
	2005	4,735	3	
	2006	9,573	4	
	2007	0	0	
	2008	14,414	51	
	2009	4,173	30	
	2010	1,735	3	

CATALOGING UNIT	STREAM IMPACTS	WETLAND IMPACTS
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3030004

2004	1,250	1
2005	4,502	10
2006	1,182	0
2007	26,665	164
2008	25,561	208
2009	0	0
2010	511	0

Feet Acres

03030005

2004	0	0
2005	965	4
2006	0	0
2007	0	0
2008	0	0
2009	18,663	262
2010	0	0

03030006

2004	0	0
2005	460	2
2006	50	2
2007	0	0
2008	0	0
2009	8,437	42
2010	0	0

03030007

2004	59	0
2005	245	2
2006	150	1
2007	0	0
2008	0	0
2009	0	0
2010	5,134	19

CATAWBA RIVER BASIN

CATALOGING UNIT	STREAM IMPACTS Feet	WETLAND IMPACTS Acres
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03050101

2004	479	1
2005	27,297	5
2006	229	0
2007	15,993	29
2008	2,077	0
2009	0	0
2010	0	0

CATALOGING UNIT	STREAM IMPACTS	WETLAND IMPACTS
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03050102

2004	30	0
2005	0	0
2004	0	0
2005	0	0
2006	2,680	23
2007	0	0
2008	0	0

03050103

2004	0	0
2005	0	0
2004	3,500	0
2005	10,587	52
2006	13,014	64
2007	0	0
2008	4,410	18

CHOWAN RIVER BASIN

	Feet	Acres
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03010203

2004	0	0
2005	0	0
2006	0	0
2007	0	218
2008	0	0
2009	0	0
2010	8,769	79

03010204

2004	0	0
2005	0	0
2006	0	0
2007	0	0
2008	0	0
2009	0	0
2010	0	0

FRENCH BROAD RIVER BASIN

CATALOGING UNIT	STREAM IMPACTS	WETLAND IMPACTS
	Feet	Acres

06010105

2004	156	0
2005	1,168	2
2006	7,412	6
2007	457	0
2008	16,257	3
2009	2,099	0
2010	15,245	3

CATALOGING UNIT	STREAM IMPACTS	WETLAND IMPACTS
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06010106

2004	84	0
2005	29	0
2006	554	0
2007	292	0
2008	2,848	0
2009	731	0
2010	0	0

FRENCH BROAD RIVER BASIN

CATALOGING UNIT	STREAM IMPACTS		WETLAND IMPACTS Acres
	Feet		
<u>06010108</u>			
2004	0		0
2005	140		0
2006	0		0
2007	34,213		0
2008	0		0
2009	0		0
2010	5,119		1

HIWASSEE RIVER BASIN

CATALOGING UNIT	STREAM IMPACTS		WETLAND IMPACTS Acres
	Feet		
<u>06020002</u>			
2004	680		1
2005	8,385		0
2006	0		0
2007	16,198		8
2008	5,231		0
2009	0		0
2010	0		0

LITTLE TENNESSE RIVER BASIN

CATALOGING UNIT	STREAM IMPACTS		WETLAND IMPACTS Acres
	Feet		
<u>06010202</u>			
2004	197		0
2005	0		0
2006	26,272		0
2007	0		0
2008	0		0
2009	0		0
2010	15,928		0

CATALOGING UNIT	STREAM IMPACTS	WETLAND IMPACTS
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06010203

2004	0	0
2005	44	0
2006	0	0
2007	0	0
2008	0	0
2009	0	0
2010	0	0

LITTLE TENNESSE RIVER BASIN

CATALOGING UNIT	STREAM IMPACTS Feet	WETLAND IMPACTS Acres
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06010204

2004	0	0
2005	0	0
2006	0	0
2007	0	0
2008	0	0
2009	0	0
2010	0	0

LUMBER RIVER BASIN

CATALOGING UNIT	STREAM IMPACTS Feet	WETLAND IMPACTS Acres
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03040203

2004	0	0
2005	8,239	40
2006	1,742	40
2007	0	0
2008	0	0
2009	0	0
2010	4,826	29

03040204

2004	0	0
2005	0	0
2006	0	1
2007	0	0
2008	0	0
2009	0	0
2010	0	0

03040206

2004	0	0
2005	275	1
2006	80	0
2007	0	0
2008	0	0
2009	0	0
2010	0	0

CATALOGING UNIT	STREAM IMPACTS	WETLAND IMPACTS
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03040207

2004	0	0
2005	0	0
2006	485	6
2007	3,844	99
2008	0	0
2009	0	0
2010	0	0

NEUSE RIVER BASIN

CATALOGING UNIT	STREAM IMPACTS	WETLAND IMPACTS
	Feet	Acres

03020201

2004	0	3
2005	13,799	32
2006	6,377	271
2007	4,222	8
2008	0	0
2009	0	0
2010	1,511	0

03020202

2004	0	0
2005	0	0
2006	0	0
2007	13,332	82
2008	5,704	113
2009	2,240	28
2010	0	0

03020203

2004	0	0
2005	445	5
2006	0	0
2007	0	0
2008	0	0
2009	0	0
2010	0	0

03020204

2004	321	4
2005	645	32
2006	1,030	30
2007	0	0
2008	10,241	180
2009	866	77
2010	0	0

NEW RIVER BASIN

CATALOGING UNIT <u>05050001</u>	STREAM IMPACTS		WETLAND IMPACTS	
	Feet		Acres	
2004	119		0	
2005	160		0	
2006	120		0	
2007	364		0	
2008	9,029		4	
2009	1,026		0	
2010	9,477		2	

PASQUOTANK RIVER BASIN

CATALOGING UNIT <u>03010205</u>	STREAM IMPACTS		WETLAND IMPACTS	
	Feet		Acres	
2004	150		1	
2005	60		0	
2006	8,610		84	
2007	281		3	
2008	0		0	
2009	926		17	
2010	8,361		371	

ROANOKE RIVER BASIN

CATALOGING UNIT	STREAM IMPACTS		WETLAND IMPACTS	
	Feet		Acres	
<u>03010102</u>	0		0	
2004	0		0	
2005	0		0	
2006	0		0	
2007	0		0	
2008	0		0	
2009	0		0	
2010	0		0	
<u>03010103</u>				
2004	290		0	
2005	957		0	
2006	0		0	
2007	0		0	
2008	1,559		2	
2009	0		0	
2010	0		0	

CATALOGING UNIT	STREAM IMPACTS	WETLAND IMPACTS
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03010104

2002	160	1
2003	360	0
2004	110	0
2005	5,129	13
2006	0	0
2007	0	0
2008	0	0

03010106

2004	0	0
2005	0	0
2006	0	0
2007	0	0
2008	0	0
2009	0	0
2010	0	0

CATALOGING UNIT	STREAM IMPACTS	WETLAND IMPACTS
	Feet	Acres

03010107

2004	130	0
2005	613	131
2006	0	1
2007	0	0
2008	0	0
2009	0	1
2010	2,699	0

TAR-PAMLICO RIVER BASIN

CATALOGING UNIT	STREAM IMPACTS	WETLAND IMPACTS
	Feet	Acres

03020101

2004	2,368	0
2005	1,271	2
2006	1,249	0
2007	5,082	1
2008	769	0
2009	11,055	69
2010	686	0

03020102

2004	56	0
2005	108	7
2006	175	1
2007	90	8
2008	0	0
2009	0	0
2010	1,667	7

CATALOGING UNIT	STREAM IMPACTS	WETLAND IMPACTS
<u>03020103</u>		
2004	100	0
2005	247	8
2006	265	0
2007	1,921	12
2008	0	0
2009	0	0
2010	19,660	86
<u>03020104</u>		
2004	0	0
2005	145	0
2006	90	0
2007	2	1
2008	0	0
2009	0	0
2010	0	0
<u>03020105</u>		
2004	1,178	0
2005	0	2
2006	0	0
2007	0	2
2008	0	0
2009	1,026	1
2010	0	0

WATAUGA RIVER BASIN

CATALOGING UNIT	STREAM IMPACTS	WETLAND IMPACTS
	Feet	Acres
<u>06010103</u>		
2004	122	0
2005	140	1
2006	7,101	2
2007	1	1
2008	0	0
2009	8,216	5
2010	0	0

WHITE OAK RIVER BASIN

CATALOGING UNIT	STREAM IMPACTS	WETLAND IMPACTS
	Feet	Acres
<u>03030001</u>		
2004	0	0
2005	147	0
2006	0	0
2007	0	0
2008	0	0
2009	0	0
2010	0	0

CATALOGING UNIT	STREAM IMPACTS	WETLAND IMPACTS
<u>03020106</u>		
2004	694	28
2005	0	0
2006	0	0
2007	0	0
2008	0	0
2009	0	0
2010	9,762	166

YADKIN RIVER BASIN

CATALOGING UNIT	STREAM IMPACTS	WETLAND IMPACTS
	Feet	Acres
<u>03040101</u>		
2004	0	0
2005	2,996	1
2006	8,127	1
2007	18,916	17
2008	22,048	1,314
2009	8,385	1
2010	18,141	32
<u>03040102</u>	Feet	Acres
2004	1,821	0
2005	3,723	1
2006	149	0
2007	1,381	0
2008	2,527	2
2009	9,639	13
2010	0	0
<u>03040103</u>		
2004	167	0
2005	7,578	6
2006	8,988	16
2007	1,811	1
2008	10,524	12
2009	0	0
2010	0	0
<u>03040104</u>		
2004	0	0
2005	23	0
2006	232	0
2007	0	0
2008	0	0
2009	7,938	7
2010	3,118	12
<u>03040105</u>		
2004	9,986	10
2005	2,306	0
2006	14,774	50
2007	3,195	8
2008	27,025	65
2009	4,593	1
2010	7,693	39

CATALOGING UNIT <u>03040201</u>	STREAM IMPACTS	WETLAND IMPACTS
2004	0	0
2005	207	1
2006	200	0
2007	454	0
2008	10,369	0
2009	0	0
2010	0	0
<hr/>		
<u>Totals</u>		
2004	26,333	56
2005	96,590	302
2006	119,901	522
2007	179,917	791
2008	201,154	2,106
2009	120,161	662
2010	<u>151,709</u>	<u>896</u>
	895,709	5,334

SECTION 2: MITIGATION PROJECT STATUS

Section 2 provides the status of the Ecosystem Enhancement Program restoration and preservation mitigation projects. Tables 2a-d is a listing of restoration project status by river basin and CU. Table 3 is a listing of high quality preservation projects by eco-region.

Tables 2a – 2d: Restoration Site Status as of June 30, 2003

Tables 2a-d lists ecosystem restoration, enhancement, and preservation projects that the EEP has available to meet the requirements of compensatory mitigation. The units of mitigation provided in the table are the total amount of mitigation available to a particular project over time. Where credit release schedules have been established, the EEP will debit from these projects accordingly. The units of mitigation for any project may change from the time of this report as additional design and monitoring information is available to the EEP or as mitigation units are refined as per the goals set forth in the EEP MOA.

Tables 2a – 2d: Restoration Site Status as of June 30, 2004

Table 2a is a list of projects initiated by the Department of Transportation's Project Development and Environmental Analysis Branch prior to the inception of the EEP. These projects are in various stages of implementation. The EEP staff is currently managing these projects. The EEP will utilize their mitigation credits according to the guidelines of the Tri-party MOA

Table 2a:

Project Name	Basin	Eight-digit CU	Stream Restoration	Stream Enhancement I	Stream Enhancement II	Stream Preservation	Riverine Restoration	Riverine Creation	Riverine Enhancement	Riverine Preservation	Nonriverine Restoration	Nonriverine Creation	Nonriverine Enhancement	Nonriverine Preservation	Coastal Marsh Restoration	Coastal Marsh Creation	Coastal Marsh Enhancement	Coastal Marsh Preservation
Jalo	Neuse	03020201	2500															
Brock	Neuse	03020204		2200														
Meredell Farm Site	Cape Fear	03030003	4400			4800												
Roseboro Site	Cape Fear	03030006	2200															
Rowan Branch	Cape Fear	03030006				15					14							
Grove Creek	Cape Fear	03030007				6	10.2		352	3.9		7.6						
Deep Creek Mitigation Bank	Yadkin	03040101	819			4.5	1.2		1.5									
Fisher River Mitigation Bank	Yadkin	03040101	475			25.5	8.1	0.9										
Five Mile Branch	Yadkin	03040102	17595			25.0		4.0		10.0		4.0						
Rich ForkCreek	Yadkin	03040103	3000			20.0			2.0									
Valley Fields Farm Site	Yadkin	03040103	9500			5970	34.0				4.0		4.0					
Dula Thorofare @ Bishop Site	Yadkin	03040104	2099	1369		5715				8.1								
Back Creek Church	Yadkin	03040105	2800															
Camp Branch @ Bishop Site	Yadkin	03040105	3204	1042		3974				6.0								
Bush Island	Lumber	03040203					75				100							
Mill Branch	Lumber	03040206	3489			1750				37.3								
Pott Creek Mitigation Bank	Catawba	03050101	450			13				2								

Table 2b is a list of projects developed and constructed by the DOT. The available credit for these projects have been verified by the U.S. Army Corps of Engineers and the DOT. This table presents the total amount of available credit for a particular project. Projects that have credit release schedules will be debited from accordingly.

Table 2b:

Project Name	Basin	8-digit CU	Stream Restoration	Stream Enhancement I	Stream Enhancement II	Stream Preservation	Riverine Restoration	Riverine Creation	Riverine Enhancement	Riverine Preservation	Nonriverine Restoration	Nonriverine Creation	Nonriverine Enhancement	Nonriverine Preservation	Coastal Marsh Restoration	Coastal Marsh Creation	Coastal Marsh Enhancement	Coastal Marsh Preservation
Company Swamp	Roanoke	03010107																
Ballance Farm	Pasquotank	03010205					196.3			49.65						40.25	50	
Dismal Swamp	Pasquotank	03010205					15.46		20.8		252.8		91					
Abbott	Neuse	03020201	584															
Dutchman's Creek	Neuse	03020201					0					5						
Brock Site	Neuse	03020204	1596															
Brock Site (wetland)	Neuse	03020204								1.65								
Croatan Mitigation Bank	Neuse	03020204					49.6		45.8	7.6	1435	72.2	991.8					
Caviness	Cape Fear	03030003	1															
Deaton	Cape Fear	03030003	505															
Blue Mitigation Site	Cape Fear	03030004								120.4								
Dale Tract	Cape Fear	03030005									126.3		17.9					
Dowd Dairy	Cape Fear	03030005					5.8				501							
Barra Farms I	Cape Fear	03030006									160.5							
Bull Farm	Cape Fear	03030006											2.18					
Finley-McMillan	Cape Fear	03030007											398					
Afton Run	Yadkin	03040105	261															
Back Creek	Yadkin	03040105	3773															
Back Creek (wetland)	Yadkin	03040105					0.34		3.51									
Bush	Lumber	03040206									650							

Project Name	Basin	8-digit CU	Stream Restoration	Stream Enhancement I	Stream Enhancement II	Stream Preservation	Riverine Restoration	Riverine Creation	Riverine Enhancement	Riverine Preservation	Nonriverine Restoration	Nonriverine Creation	Nonriverine Enhancement	Nonriverine Preservation	Coastal Marsh Restoration	Coastal Marsh Creation	Coastal Marsh Enhancement	Coastal Marsh Preservation
Great Dismal Swamp	Pasquotank	03010205									553							
Scuppernong	Pasquotank	03010205				17.95												
Grimesland Site	Tar-Pamlico	03020103				49.01			348		80							
Huskanaw Swamp	Tar-Pamlico	03020103							23.6									
Mildred Woods	Tar-Pamlico	03020103				129				8	23							
Speight Branch (wetland)	Neuse	03020201					1	1.22										
Wiggins Mill (wetland)	Neuse	03020201				12.69			6.65									
Lengyel	Neuse	03020202														5.64		4.7
Sawmill	Neuse	03020202							0.28								0.18	0.24
Wiggins Mill	Neuse	03020203	247															
Stallings	Neuse	03020204	5920															
Horsepen Creek	Cape Fear	03030002				1.77												
McLeansville	Cape Fear	03030002							6									
South Buffalo Creek	Cape Fear	03030002				4.03			2.21									
Sandy Creek	Cape Fear	03030003							5.69									
McIntyre Property	Cape Fear	03030005							12.3							37.3	79.9	
Sheperd's Tree	Yadkin	03040102					19.84	94.14	8.00									
Shepherd's Tree (stream)	Yadkin	03040102	3238	1429														
Key Branch (wetland)	Yadkin	03040104					18.4			3.6								
Helms	Yadkin	03040105	342															
Gibson Pond	Yadkin	03040201									36.7							
Juniper Bay	Lumber	03040203									697.4							
Long Creek	Catawba	03050103							1.64									
Sparta Bog	New	05050001										11.9						
Mud Creek	French Broad	06010105									15.6							
Tulula (stream)	Little Tennessee	06010204	4683						47.84									
Tulula Bog (wetland)	Little Tennessee	06010204																

Table 2c is a list of projects that were initiated by the DOT as full delivery projects. These projects are currently under contract with the DOT but are available for debiting for the purposes of the EEP, as determined by credit release schedules.

Table 2c:

Project Name	Basin	8-digit CU	Stream Restoration	Stream Enhancement I	Stream Enhancement II	Stream Preservation	Riverine Restoration	Riverine Creation	Riverine Enhancement	Riverine Preservation	Nonriverine Restoration	Nonriverine Creation	Nonriverine Enhancement	Nonriverine Preservation	Coastal Marsh Restoration	Coastal Marsh Creation	Coastal Marsh Enhancement	Coastal Marsh Preservation
Gregory (stream)	Tar-Pamlico	03020102	6,500															
Gregory (wetland)	Tar-Pamlico	03020102				75												
Neu-Con Mitigation Bank	Neuse	03020201	7,500			20					100							
Neu-Con Mitigation Bank	Neuse	03020202									50							
Neu-Con Mitigation Bank	Neuse	03020203	7,500			175					60							
Neu-Con Mitigation Bank	Neuse	03020204	7,500			60												
Open Springs	Cape Fear	03030003	4,520															
Stonebridge	Cape Fear	03030003	6,240															
City Pond	Yadkin	03040201	10,667															
Pott Creek	Catawba	03050102	3,500			5.45	31.32	0.76	0.36									
Pott Creek II	Catawba	03050102	10,054															
South Fork	Catawba	03050102	11,260															

End of Table 2c

Table 2d is a list of projects that were initiated and developed by the staff of the NC Department of Environment and Natural Resource's Wetlands Restoration Program and the Ecosystem Enhancement Program. These projects have been acquired as defined by both the 1998 MOA between the USACE and the DENR and the EEP 2003 MOA.

Table 2d:

Project Name	Basin	8-digit CU	Stream Restoration	Stream Enhancement I	Stream Enhancement II	Stream Preservation	Riverine Restoration	Riverine Creation	Riverine Enhancement	Riverine Preservation	Nonriverine Restoration	Nonriverine Creation	Nonriverine Enhancement	Nonriverine Preservation	Coastal Marsh Restoration	Coastal Marsh Creation	Coastal Marsh Enhancement	Coastal Marsh Preservation
Charles Creek	Pasquotank	03010205				2.9												
Elizabeth City State BMP	Pasquotank	03010205				0.5												
Knobs Creek	Pasquotank	03010205									19							
Watts Property	Pasquotank	03010205	1000			4					40							
Bear Swamp Creek	Tar-Pamlico	03020101	1500															
Billy's Creek	Tar-Pamlico	03020101	1400															
FCWR03	Tar-Pamlico	03020101				30												
Louisburg (UT to Tar River)	Tar-Pamlico	03020101	2000															
Hammock's Beach State Park	White Oak	03020106																
Jumping Run Creek	White Oak	03020106				4.4												
North River	White Oak	03020106									250							
Chavis Park	Neuse	03020201	2200															
Cheviot Hills	Neuse	03020201	3000															
Ellerbee Creek	Neuse	03020201	6000															
Goldsboro Housing Authority	Neuse	03020201	2000															
Goose Creek	Neuse	03020201	3000															
Howell Woods	Neuse	03020201				20		80	39									
Kentwood Park	Neuse	03020201	1400															
Mocassin Creek	Neuse	3020201																

Project Name	Basin	8-digit CU	Stream Restoration	Stream Enhancement I	Stream Enhancement II	Stream Preservation	Riverine Restoration	Riverine Creation	Riverine Enhancement	Riverine Preservation	Nonriverine Restoration	Nonriverine Creation	Nonriverine Enhancement	Nonriverine Preservation	Coastal Marsh Restoration	Coastal Marsh Creation	Coastal Marsh Enhancement	Coastal Marsh Preservation
Prestonwood G.C.	Neuse	03020201	4100															
Richland Creek	Neuse	03020201	300															
Smith/Austin Creek	Neuse	03020201	8000	2000														
Stillhouse Creek	Neuse	03020201	1500															
Wake Forest C.C.	Neuse	03020201	6000															
Whitelace Creek	Neuse	03020202	3751						5.5	16.5								
Hominy Swamp Creek	Neuse	03020203																
Sturgeon City (Phase I)	White Oak	03030001														3.5		
Sturgeon City (Phase II)	White Oak	03030001														2.5		
Benbow Park	Cape Fear	03030002	1752															
Brown Bark Park	Cape Fear	03030002	2748															
Cane Creek	Cape Fear	03030002	2300															
Forest Hills	Cape Fear	03030002	689															
Gillespie Golf Course	Cape Fear	03030002	3427	1200														
Hillsdale Park	Cape Fear	03030002	5963															
Hillsdale Park	Cape Fear	03030002	5963															
Price Park	Cape Fear	03030002	1776															
Reedy Branch	Cape Fear	03030002	2400															
Sandy Creek	Cape Fear	03030002		3000			3.2											
Troublesome Creek	Cape Fear	03030002								250								
Wells Creek	Cape Fear	03030002	6000															
Suck Creek	Cape Fear	03030003	3000															
Cross Creek	Cape Fear	03030004	2400															
Burnt Mill Creek	Cape Fear	03030007					0.8											
Mineral Springs	Cape Fear	03030007	2500															
Beaver Creek	Yadkin	03040101	4300															
Brushy Fork	Yadkin	03040101	7400															
Bugaboo Creek	Yadkin	03040101	6600															

Project Name	Basin	8-digit CU	Stream Restoration	Stream Enhancement I	Stream Enhancement II	Stream Preservation	Riverine Restoration	Riverine Creation	Riverine Enhancement	Riverine Preservation	Nonriverine Restoration	Nonriverine Creation	Nonriverine Enhancement	Nonriverine Preservation	Coastal Marsh Restoration	Coastal Marsh Creation	Coastal Marsh Enhancement	Coastal Marsh Preservation
Naked Creek	Yadkin	03040101	7000.0															
Purlear Creek	Yadkin	03040101	13000				2											
Silas Creek	Yadkin	03040101	4500															
Stone Mountain	Yadkin	03040101	7000		2590													
Warrior Creek	Yadkin	03040101	9200															
UT to Barnes Creek (HurleySite)	Yadkin	03040104	1900										1.5					
Cato	Yadkin	03040105	2200															
Helms	Yadkin	03040105	2300															
Hall Branch	Yadkin	03040201	2000						5	2	2							
Middle Swamp Creek	Lumber	03040203	2800							6								
Brown Branch	Catawba	03050101	5400															
Caldwell/Foley/EcoPark	Catawba	03050101	2500						2.5		5							
Elk Shoals	Catawba	03050101	6100															
Payne Dairy	Catawba	03050101	5177	470	1350													
Wike Property (Lyle Creek)	Catawba	03050101	2400		800													
Zack's Fork Creek	Catawba	03050101	3900															
Four Mile Creek	Catawba	03050103	2950															
Freedom Park	Catawba	03050103	4200															
Little Sugar @ Freedom Park	Catawba	03050103	4200															
Brush Creek	New	05050001	1350	490	1750													
Clear Creek	French Broad	06010105	1500															
Hendersonville Wetlands	French Broad	06010105						20										
High Vista	French Broad	06010105	3100	400														
Trout Cove Branch	Hiwassee	06020002	3900															

End of Table 2d

Preservation Site Status as of June 30, 2004

Table 3, lists high quality **preservation** sites that are being acquired or have been acquired this quarter, by amount, type, and eight-digit CU based on the seven-year anticipated impacts and also shows projects that were initiated in a previous quarter and whose status has changed this quarter. This table is also organized by eco-region to correlate with preservation accounting.

Table 3 Site Status Definitions:

Funded: funds approved by Board of Transportation

Option: option to purchase obtained by State Property Office

Approved: site reviewed favorably by USACE

Acquired: site purchased or easement obtained by State Property Office

Table 3

Eco-region	River basin	Cataloging Unit	Site Name	Preservation Wetland Assets (ac)	Preservation Stream Assets (ft)	Site Status*
Northern Outer Coastal Plain	Roanoke	03010107	Cashie River IP tracts	305	11,819	Funded, approved, option
	Total			305	11,819	
Southern Outer Coastal Plain	Cape Fear	03030001	Hancock Timber	922	54,120	Funded, approved, appraisals and timber cruise complete
		03030007	Shaken Creek Wallace Deer Club 1, 2	1,060	2,340	Approved, appraisals underway
	Total			1,982	56,460	
Northern Inner Coastal Plain		03020102	Edwards	7.5	4,756	Approved
	Total			7.5	4,756	
Southern Inner Coastal Plain	No activity this quarter					

Continued next page

SECTION 2: MITIGATION PROJECT STATUS Table 3

Eco-region	River basin	Cataloging Unit	Site Name	Wetland Assets (ac)	Stream Assets (ft)	Site Status*
Central Piedmont	Cape Fear	03030003	White Pines / Newton (corrected)	0	1,000	Funded, Approved, Option, Acquired
	Tar-Pamlico	03020101	Tar River Guthrie	0	7,850	Approved
	Tar-Pamlico	03020101	Tar River McNair	0	4,650	Approved
	Total			0	13,500	
Southern Piedmont	Lumber	03040203	Drowning Creek / Camp Mackall	575	15,679	Funded, option, approved, secured, acquired
	Lumber	03040204	Drowning Creek II Rankin	1,500	24,341	Funded, approved, appraisals and timber cruise complete
	Total:			2,075	40,020	
Northern Mountains	French Broad	06010108	Little Tablerock	0	24,491	Approved, option, acquired
		03050101	White Creek Linville River	0	45,863	Approved, option
		05050001	New River Heights	0	8,735	Approved, option
		05050001	Longhope Valley Bald Mtn Trust	662	69,708	Approved
	Total:			662	148,757	
Southern Mountains	No activity this quarter					

End of Table 3

Restoration

Table 4a is a listing of permits hat have been mitigated with 2:1 restoration alone.

TIP Number	County	Eco-Region	CU	River Basin	Acceptance Letter to USACE	Stream Mitigation	Riverine Mitigation	Non-Riverine Mitigation	Coastal Mitigation
B-3445	Currituck	NOCP	3010205	Pasquotank	5/18/2004	0	0	0	0.36
B-3217	Onslow	SOCOP	3020106	White Oak	8/29/2003	0	0	0	0.9
R-2000AA/AB/AC	Wake	CP	3020201	Neuse	10/6/2003	1,177	0	0	0
R-2547	Wake	CP	3020201	Neuse	5/26/2004	59	0	0	0
B-3115	Brunswick	SOCOP	3030005	Cape Fear	5/19/2004	0	0	0.34	0
I-2304AA/AB	Rowan /Davidson	CP	3040103	Yadkin	4/30/2004	8,910	0	2.48	0
I-2511CB	Rowan	CP	3040103	Yadkin	5/18/2004	534	0	0.94	0

Table 4b shows the current Net Restoration Assets that EEP has available for debiting by river basin and cataloging unit (CU). EEP's Net Restoration Assets are calculated by taking the Total EEP Assets (listed in Table 2) and subtracting the amounts already debited to meet the In Lieu Fee Program and the EEP MOA requirements. Restoration assets developed under the Wetlands Restoration Program were assumed to be fully debited to offset Wetland Restoration compensatory mitigation requirements covered under the 1998 COE–DENR In Lieu Fee Memorandum of Understanding. Table 4b lists the assets by “restoration credits.” The restoration amounts for each asset was converted to restoration credits by using the following restoration ratios: Stream Restoration 1:1, Stream Enhancement I 2:1, Stream Enhancement II 2.5:1, Wetland Restoration 1:1, Wetland Creation 2:1, Wetland Enhancement 3:1. EEP inherited and undebited NCWRP and NCDOT preservation sites are not included in Table 4b.

Table 4b: Restoration Asset Credits Available

Basin	Eight-digit CU	Net Stream Restoration Credits	Net Riverine Restoration Credits	Net Non-riverine Wetland Credits	Net Coastal Marsh Credits
Broad		0	0.00	0.00	0.00
	03050105	0	0.00	0.00	0.00
Cape Fear		11266	54.72	879.93	63.93
	03030002	0	8.80	0.00	0.00
	03030003	11266	5.69	0.00	0.00
	03030004	0	0.00	0.00	0.00
	03030005	0	18.10	632.88	63.93
	03030006	0	0.00	161.24	0.00
	03030007	0	22.13	85.48	0.00
Catawba		21314	1.64	0.00	0.00
	03050101	0	0.00	0.00	0.00
	03050102	21314	0.00	0.00	0.00
	03050103	0	1.64	0.00	0.00
Chowan		0	0.00	0.00	0.00
	03010203	0	0.00	0.00	0.00
	03010201	0	0.00	0.00	0.00
	03010202	0	0.00	0.00	0.00
	03010204	0	0.00	0.00	0.00
French Broad		0	5.20	0.00	0.00
	06010105	0	5.20	0.00	0.00
	06010106	0	0.00	0.00	0.00
	06010108	0	0.00	0.00	0.00
Hiwassee		0	0.00	0.00	0.00
	06020002	0	0.00	0.00	0.00
	06020003	0	0.00	0.00	0.00
Little Tennessee		4683	47.84	0.00	0.00
	06010204	4683	47.84	0.00	0.00
	06010202	0	0.00	0.00	0.00
	06010203	0	0.00	0.00	0.00
Lumber		11300	73.40	1479.38	0.00
	03040203	8300	73.40	829.38	0.00
	03040204	0	0.00	0.00	0.00
	03040206	3000	0.00	650.00	0.00
	03040207	0	0.00	0.00	0.00

Basin	Eight-digit CU	Net Stream Restoration Credits	Net Riverine Restoration Credits	Net Non-riverine Wetland Credits	Net Coastal Marsh Credits
Neuse		11947	82.87	1804.40	5.70
	03020201	3084	17.91	2.50	0.00
	03020202	0	0.09	0.00	5.70
	03020203	247	0.00	0.00	0.00
	03020204	8616	64.87	1801.90	0.00
New		0	0.00	11.90	0.00
	05050001	0	0.00	11.90	0.00
Pasquotank		0	236.61	805.78	19.77
	03010205	0	236.61	805.78	19.77
Roanoke		0	0.00	0.00	0.00
	03010107	0	0.00	0.00	0.00
	03010102	0	0.00	0.00	0.00
	03010103	0	0.00	0.00	0.00
	03010104	0	0.00	0.00	0.00
	03010106	0	0.00	0.00	0.00
Savannah		0	0.00	0.00	0.00
	03060101	0	0.00	0.00	0.00
	03060102	0	0.00	0.00	0.00

Basin	8-digit CU	Net Stream Restoration Credits	Net Riverine Restoration Credits	Net Non-riverine Wetland Credits	Net Coastal Marsh Credits
Tar-Pamlico		6500	260.88	63.00	0.00
	03020101	0	0.00	0.00	0.00
	03020102	6500	75.00	0.00	0.00
	03020103	0	185.88	63.00	0.00
	03020104	0	0.00	0.00	0.00
	03020105	0	0.00	0.00	0.00
Watuaga		0	0.00	0.00	0.00
	06010103	0	0.00	0.00	0.00
White Oak		0	0.00	0.00	0.00
	03020106	0	0.00	0.00	0.00
	03030001	0	0.00	0.00	0.00
Yadkin		28389.5	132.57	0.00	0.00
	03040101	1294	31.70	0.00	0.00
	03040102	3952.5	69.58	0.00	0.00
	03040103	3056	54.00	1.91	0.00
	03040104	0	16.68	0.00	0.00
	03040105	9476	1.51	0.00	0.00
	03040201	10667	0.00	0.00	0.00
	03040202	0	0.00	0.00	0.00
Grand Total		85955.5	940.05	5045.96	89.40

*Net Assets = Total Assets - ILF mitigation debits – EEP MOA mitigation debits. ILF Mitigation debits were assumed equal to all NCWRP Assets for the purposes of this calculation. This is a conservative estimate in that there are actually some surplus assets remaining from the WRP ILF restoration sites. These surpluses have been used to mitigate for two permits under the Tri-Party MOA.

End of Table 4

Preservation Assets Available

Table 5a and Table 5b is a listing of preservation assets available by eco-region, river basin and cataloging unit. Table 5a is a listing of preservation assets that became available this quarter. Table 5b examines the cumulative amount of preservation assets including assets available at the conclusion of the previous quarter. These preservation project assets are the sum of assets available from sites that have been funded, have an option to purchase, and have been favorably reviewed by the USACE.

Eco-region	River basin	Cataloging Unit	Site Name	Wetland Assets (ac)	Stream Assets (ft)
Northern Outer Coastal Plain					
Southern Outer Coastal Plain				0	0
Northern Inner Coastal Plain				0	0
Southern Inner Coastal Plain				0	0
Central Piedmont	Yadkin	03040101	Two Rivers Davis Tract	0	7,750
	Catawba	03050101	Stanley Creek Forest, Rankin	20	17,360
Southern Piedmont				0	0
Northern Mountains	French Broad	06010108	White Creek/ Linville River	0	45,863
	New	05050001	New River Heights	0	8,735
Southern Mountains				0	0

Table 5a

Table 5b

Eco-region	River basin	Cataloging Unit	Site Name	Wetland Assets (ac)	Stream Assets (ft)
Northern Outer Coastal Plain			Roquist Pocosin	267	0
Southern Outer Coastal Plain				0	0
Northern Inner Coastal Plain				0	0
Southern Inner Coastal Plain	Cape Fear	03030006	Great Coharie Creek	4,500	309,319
Central Piedmont	Cape Fear	03030002	Eno River/Poplar Ridge	0	57,026
			Eno Wilderness		
		03030003	Haw River State Park /Phillips		
		03040101	White Pines Newton		
Southern Piedmont	Lumber	03040203	Drowning Creek/ Camp Mackall	575	15,679
Northern Mountains	French Broad	06010108	Roan Massif/ Bruchon; Little Tablerock ; Mingo;	0	103,041
		03040101			
Southern Mountains	Little Tennessee	06010202	Needmore Tract	10	96,446 (no debits)

SECTION 3: PROJECT ACCOUNTING

Section 3 reconciles the remaining assets available for use within an eco-region, river basin or cataloging unit by looking at mitigation projects that have been accepted against what is available.

Table 6 is a listing of projects that have been debited by USACE permit Action ID. All of the sites listed are preservation sites unless indicated.

Table 6
EEP Acceptance of Mitigation Responsibility, April 1 through June 30, 2004

USACE Notified that EEP has the mitigation	USACE Action ID	TIP Projects, County, Impacts	Sites Identified – Associated Assets
April 30, 2004	200430959 200430960	B-3310, Buncombe, 0.615 ac. of wetlands	Needmore, 6.15 ac of wetlands (P)
April 30, 2004	199801418	U-3311B, Cumberland, 0.19 ac. of wetlands	Great Coharie, 1.9 ac. of wetlands (P)
April 30, 2004	200120071	B-3521, Wake, 0.233 ac. of wetlands	Allen, 2.33 ac. of wetlands (P)
April 30, 2004	-	I-2304AA/AB, Rowan/Davidson, 4,455 ft. of streams, 1.24 ac. of wetlands	Valley Fields 8.910 ac. of streams, 2.48 ac. of wetlands (R)
May 18, 2004	-	B-3445, Currituck, 0.18 ac. coastal marsh	MOA Section X, 0.36 ac. of coastal marsh (R)
May 18, 2004	-	I-2511CB, Rowan, 267 ft. of streams, 0.47 ac. of wetlands	Valley Fields, 534 ft. of streams, 0.94 ac. of wetlands (R)
May 19, 2004	200100914	B-3115, Brunswick, 0.17 ac. of wetlands	0.34 ac. of wetlands (R)
May 20, 2004	-	U-0620, Cumberland, 62 ft. of streams, 0.85 ac. of wetlands	Great Coharie, 620 ft of streams, 8.5 ac. of wetlands (P)
May 20, 2004	-	R-513, Robeson, 8,192 ft. of streams, 54.12 ac. of wetlands	Great Coharie, 81,920 ft. of streams, 541.2 ac. of wetlands (P)
May 20, 2004	-	R-0967CC, Stanly, 1,272 ft. of streams, 0.18 ac. wetlands	Drowning Ck/Camp Mackall 12,720 ft. of streams, 1.8 ac. of wetlands P)
May 26, 2004	200220819	R-2547, Wake, 59 ft. of streams	MOA Section X, 938 ft. of streams (R)
June 9, 2004	200220661	B-4058, Caswell, 0.212 ac. of wetlands	Allen, 1.3 ac. of wetlands (P)

(P) Preservation

(R) Restoration

End Table 6

Available Preservation Assets After Debits as of June 30, 2003

During this quarter no restoration sites have been used for mitigation; therefore, **all available assets listed in Table 4 remain**. Table 7 below shows net remaining mitigation from preservation projects that were used in the second quarter and lists the *remaining assets* for the eco-region.

Table 7: Available Preservation Assets After Debits

Eco-Region	River Basin	Site Name	Wetland Assets (ac)	Stream Assets (ft)
Northern Outer Coastal Plain	Roanoke	Roquist Pocosin	267	0
Southern Outer Coastal Plain	Cape Fear		0	0
Northern Inner Coastal Plain			0	0
Southern Inner Coastal Plain	Cape Fear	Great Coharie Creek	3,918	72,120
Central Piedmont	Cape Fear	Eno River/Poplar Ridge, Haw River State Park, Phillips, Len's Knob/Little Mountain, White Pines Newton, Two Rivers/David Tract, Stanley Ck Forest, Rankin	16.37	25,321
Southern Piedmont	Lumber	Drowning Creek/Camp Mackall	573.2	2,959
Northern Mountains	French Broad	Roan Massif/Bruchon, White Creek/Linville River	0	157,639
	Yadkin	Mingo		
	New	New River Heights		
Southern Mountains	Little Tennessee	Needmore Tract	10	96,446

End of Table 7

Ecosystem Enhancement Program (EEP)

MISSION

The mission of the Ecosystem Enhancement Program is to restore, enhance, preserve and protect the functions associated with wetlands, streams and riparian areas including but not limited to those necessary for the restoration, maintenance and protection of water quality and riparian habitats throughout North Carolina.

VISION

The Ecosystem Enhancement Program is a model organization that protects, enhances, and restores the ecological function of North Carolina's natural resources through advance mitigation.

PURPOSE

The purpose of the Ecosystem Enhancement Program is to provide a comprehensive, natural resource enhancement program that identifies ecosystem needs at the local watershed level. The EEP further preserves, enhances, and restores ecological functions within the target watersheds while addressing impacts from anticipated NCDOT transportation projects.